Normal-incidence
incident and reflected
beams
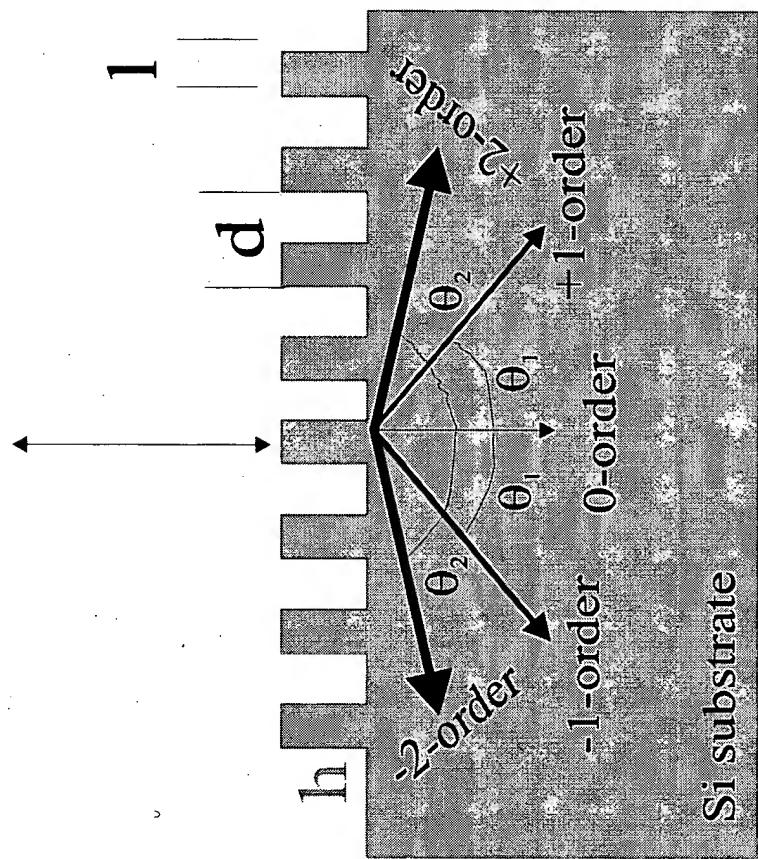
+2-order

-2-order

θ_2

θ_2

θ_1

θ_1

+1-order

-1-order

0-order

l

d

h

Si substrate

Figure 1

Figure 2

Figure 3(b)

200.00 nm
X50000

Figure 3(a)

200.00 nm
X50000

Figure 4(b)

300.00 nm
X40000

Figure 4(a)

0.60 μm
X20000

Figure 5(b)

Figure 5 (a)

Hemispherical Reflectance

60

70

80

Wavelength (μm)

0.4 0.6 0.8 1.0 1.2

0.0 0.2 0.4 0.6
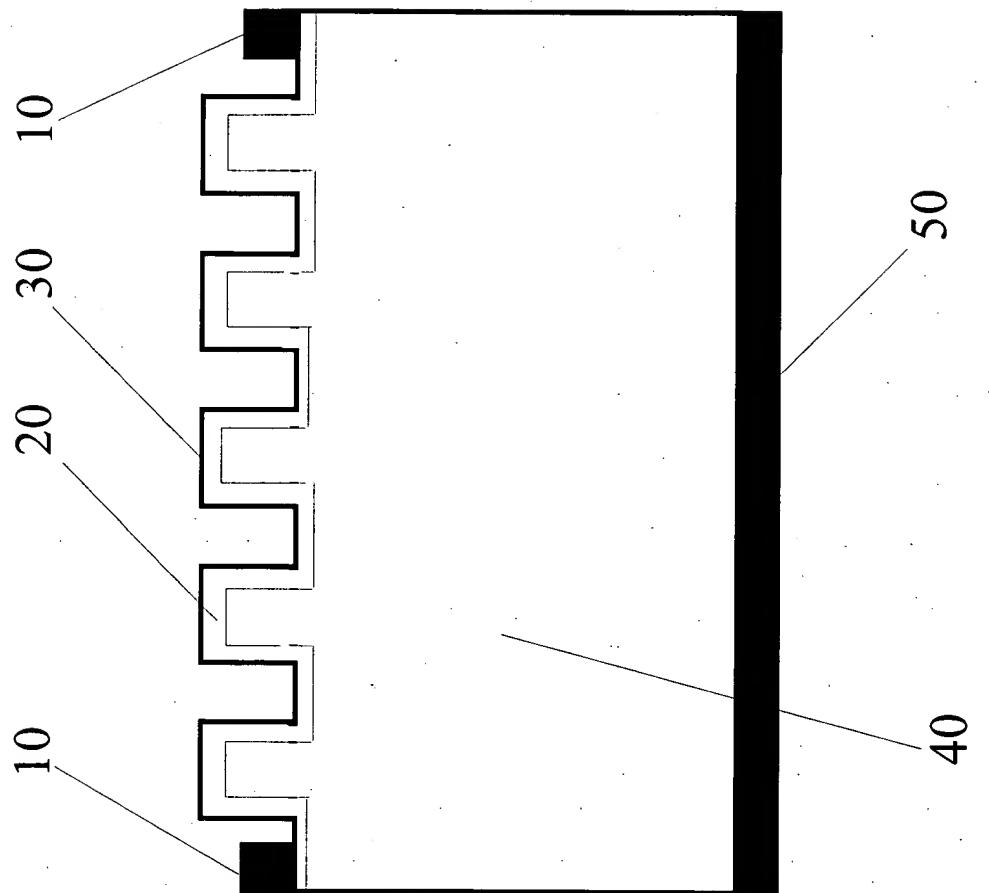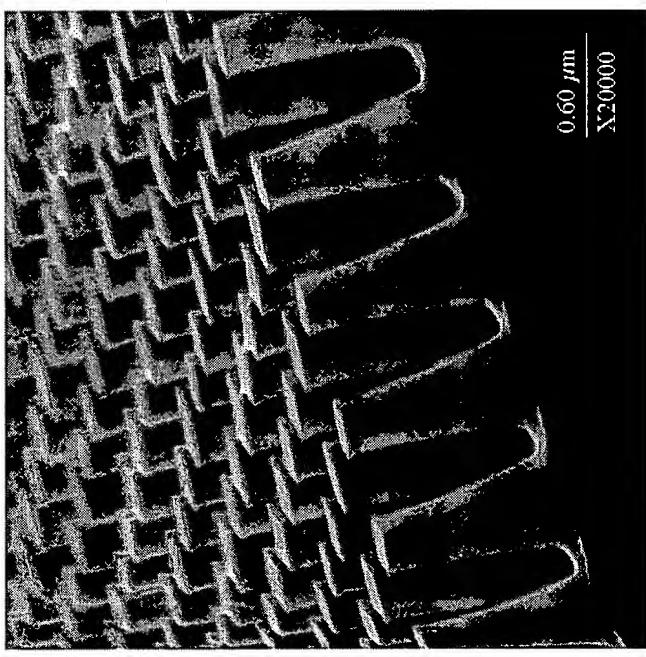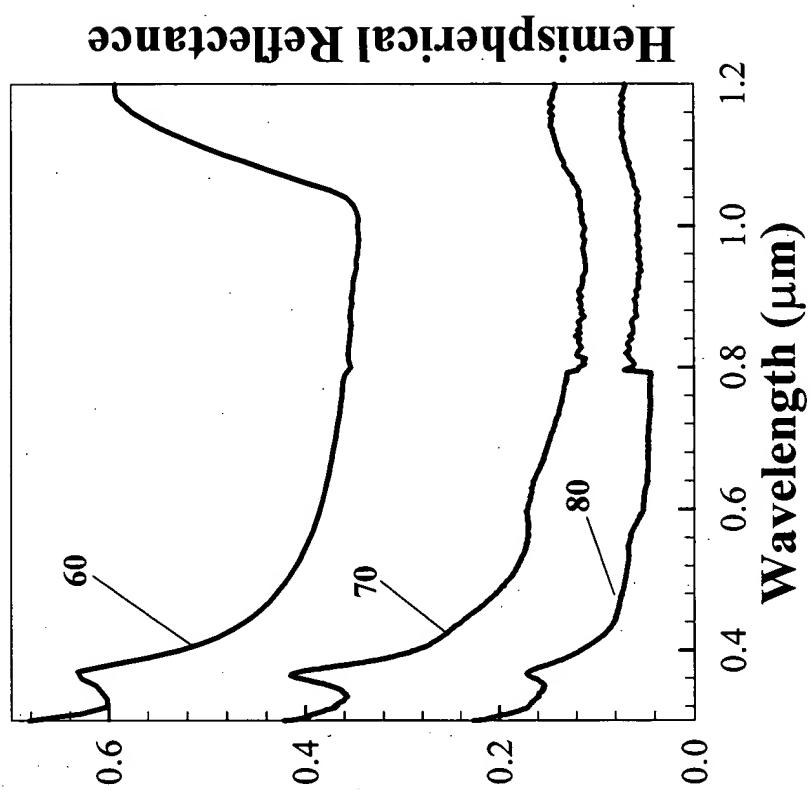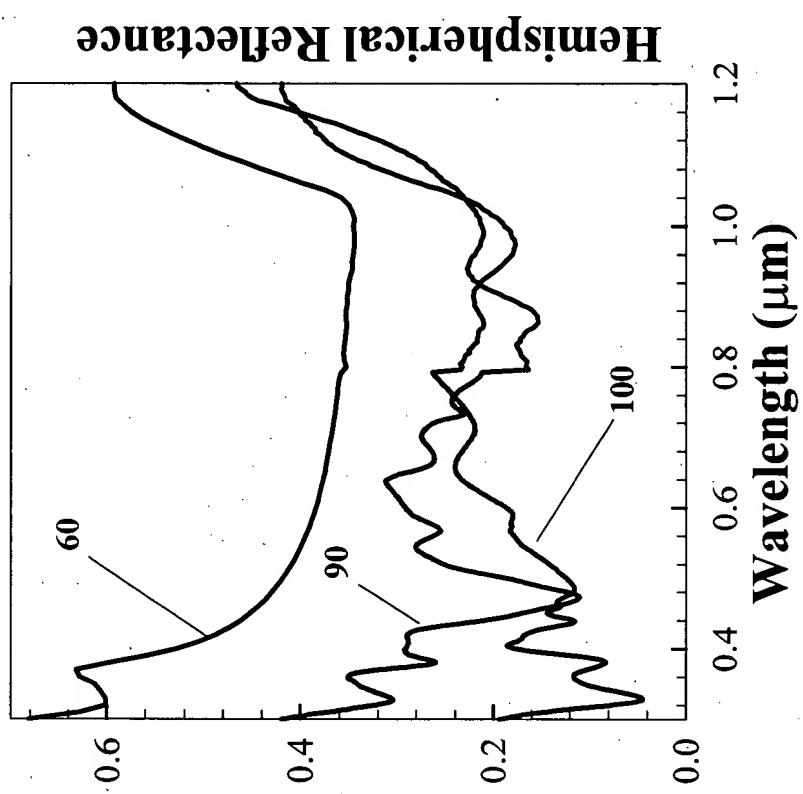
Figure 6

Figure 7

Figure 8
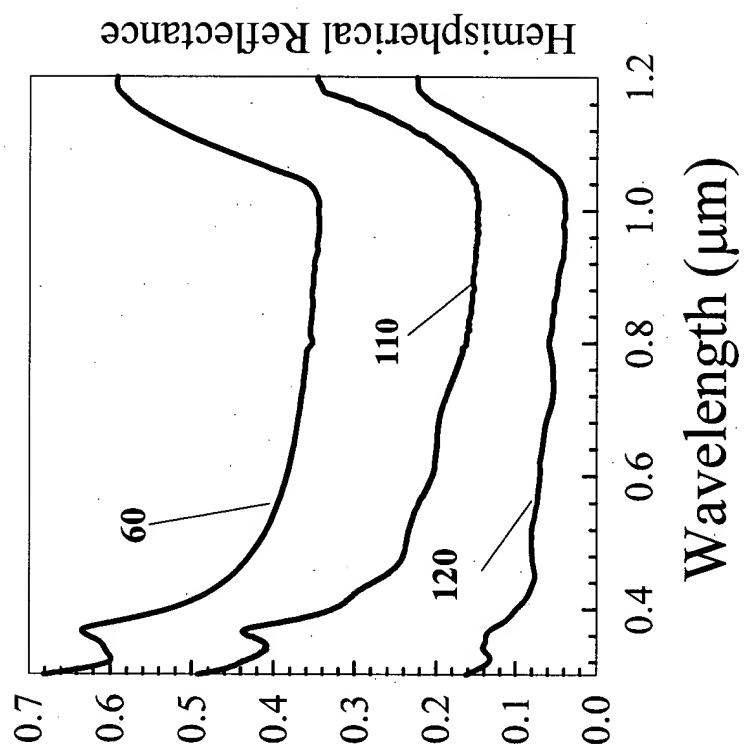
Figure 9
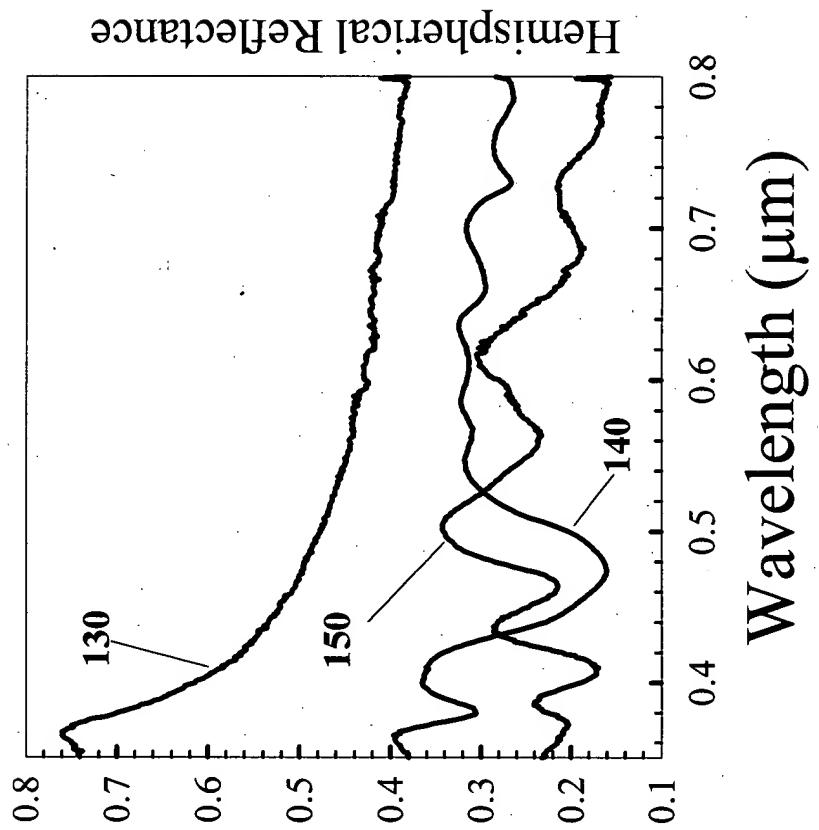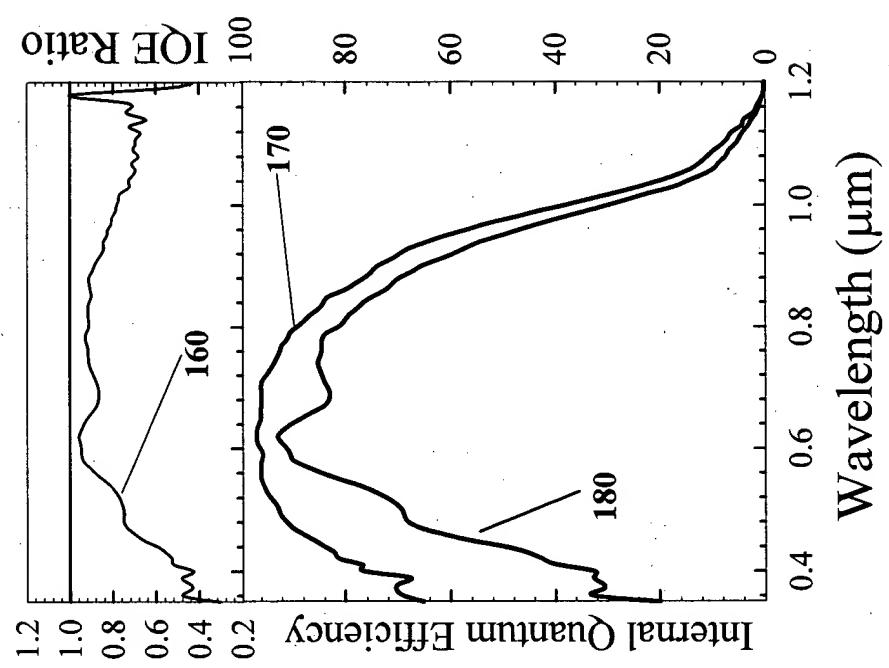
Figure 10

Figure 11

Figure 12

400.00 nm
X20000

Figure 13(b)

0.50 μm
X15000
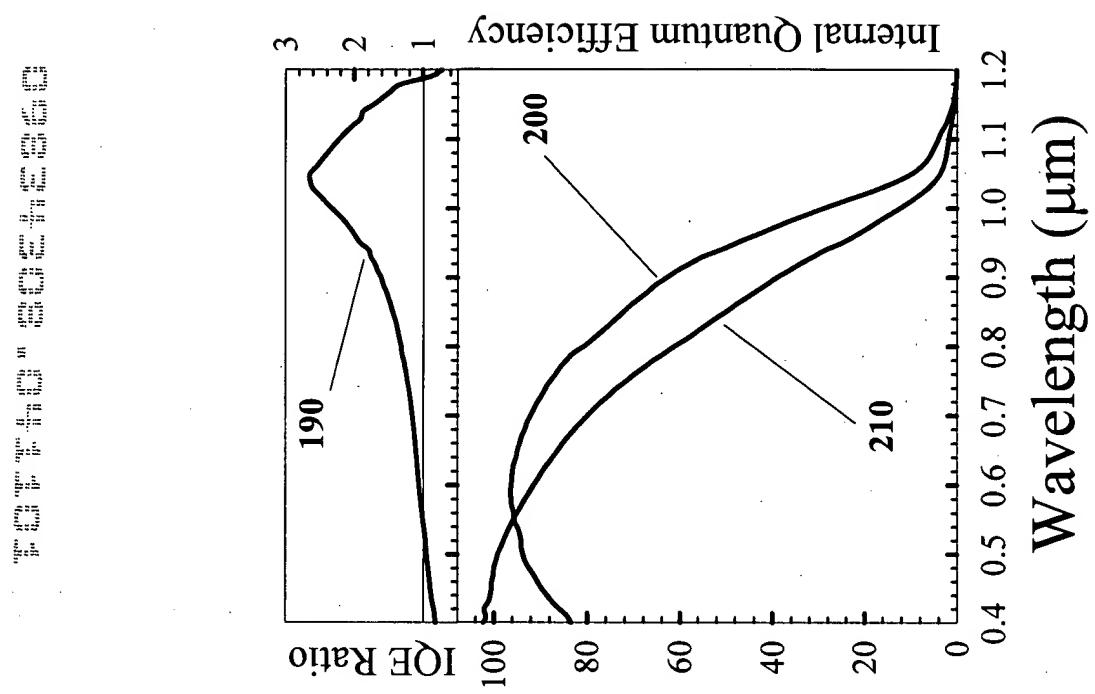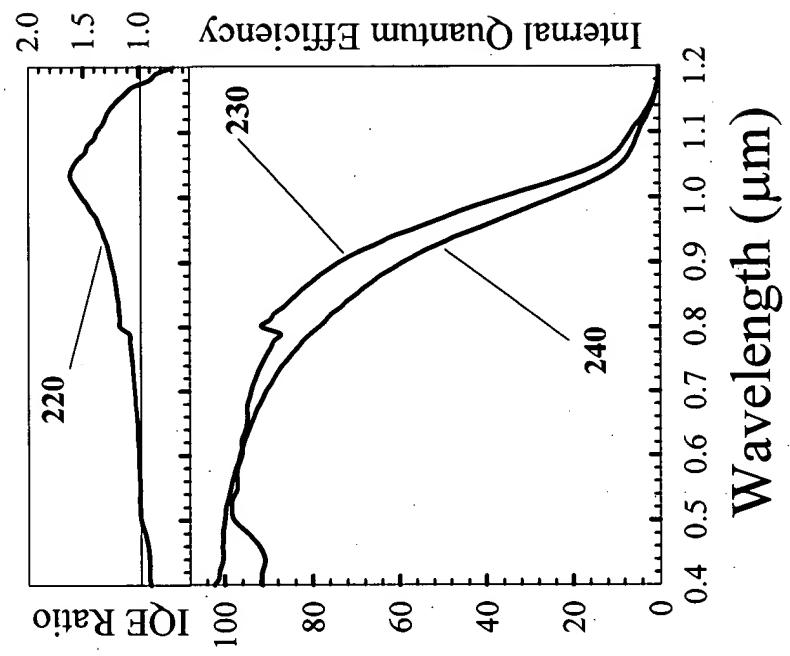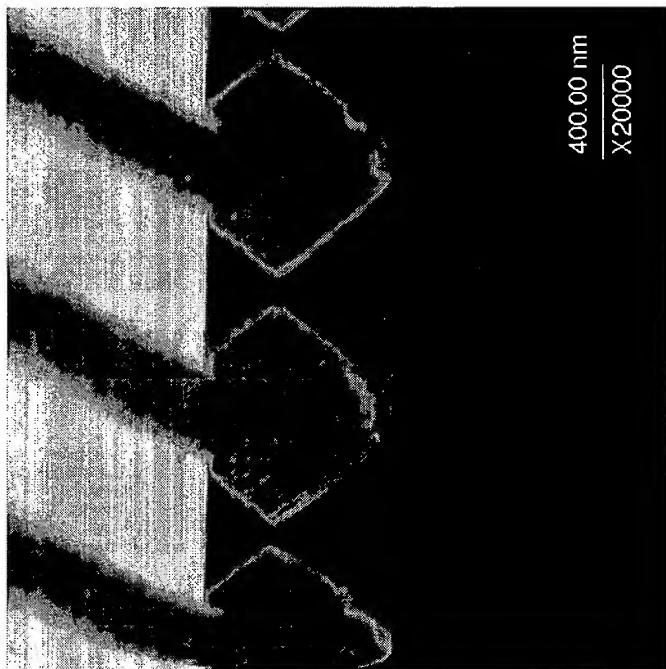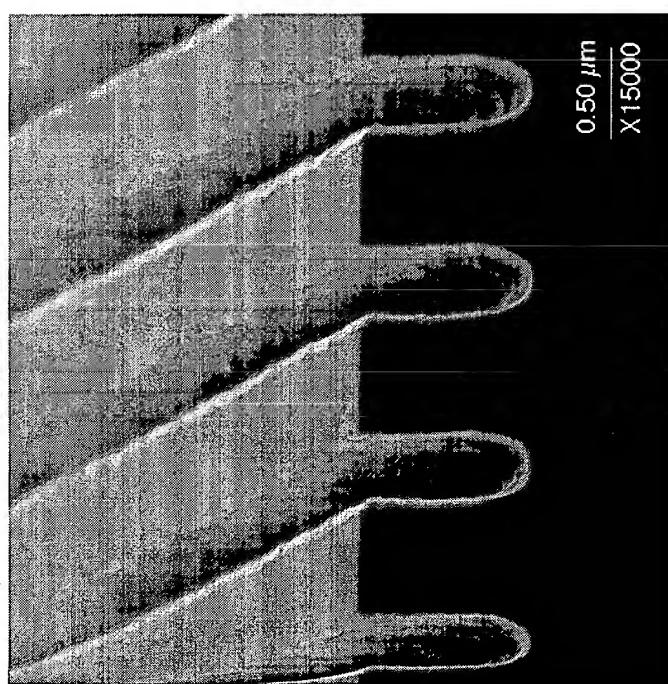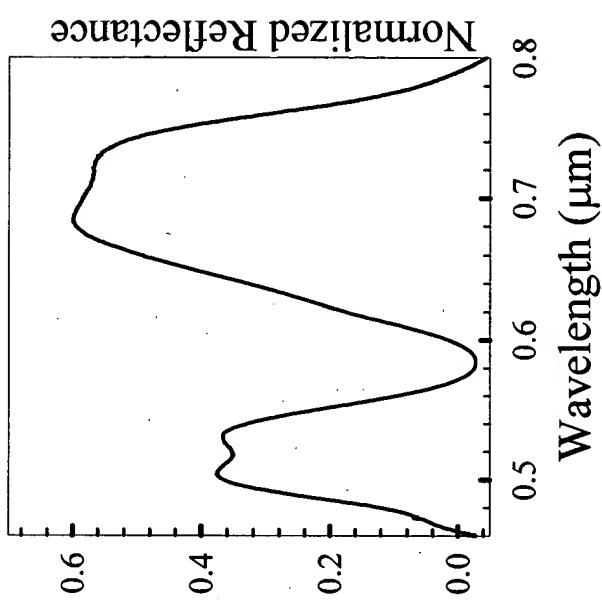
Figure 13(a)

Figure 14(a)
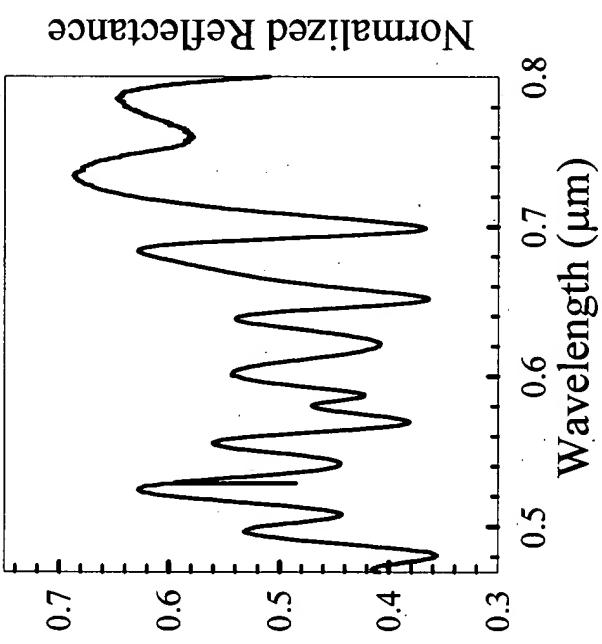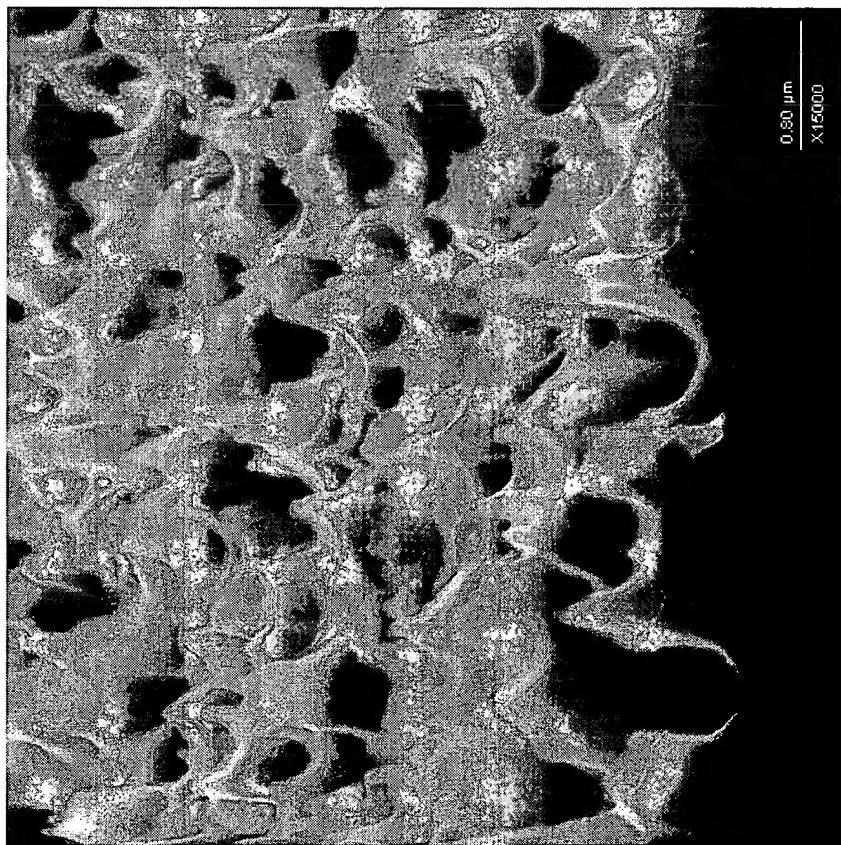
Figure 14(b)
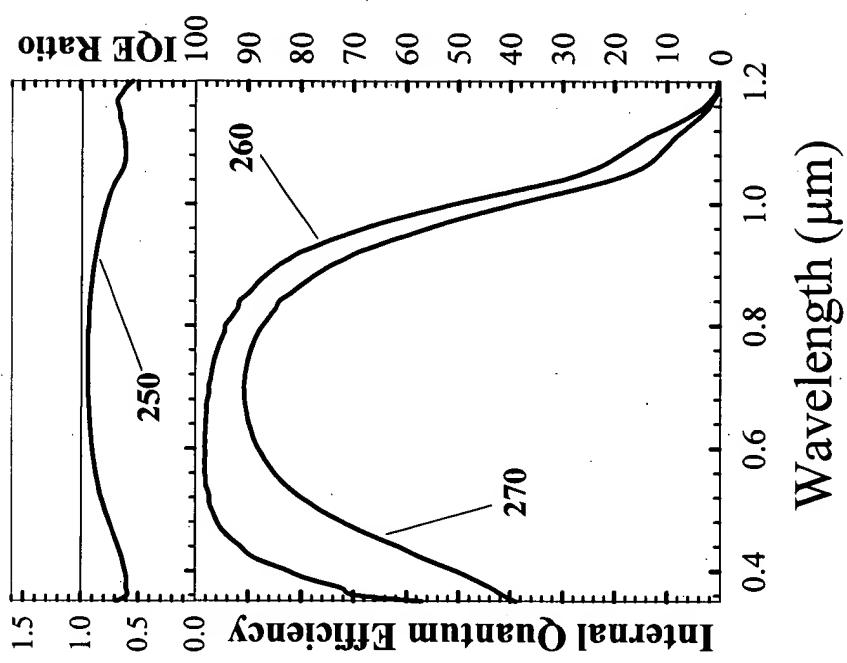
Figure 15

Figure 16

Figure 17
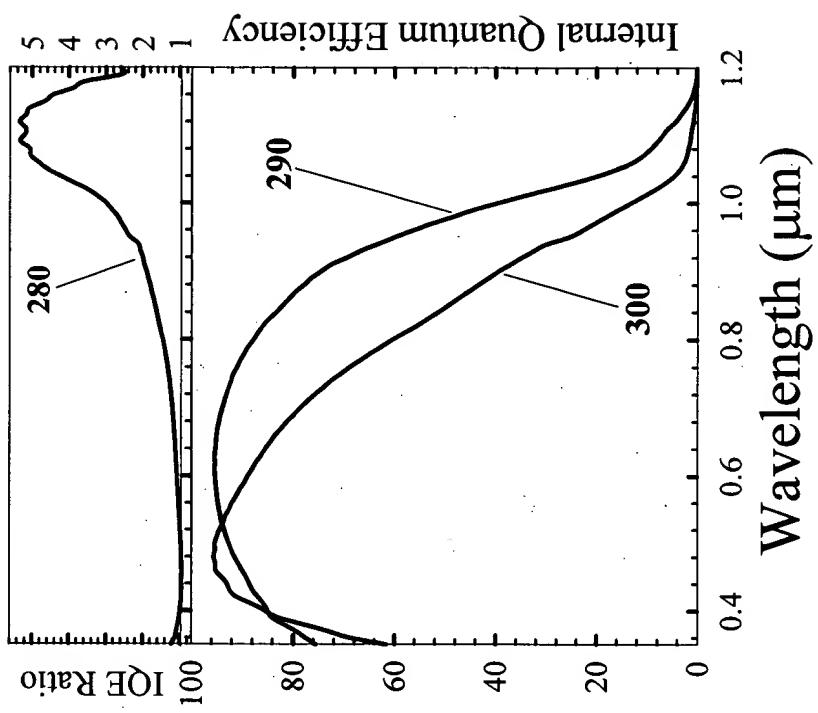
Figure 18
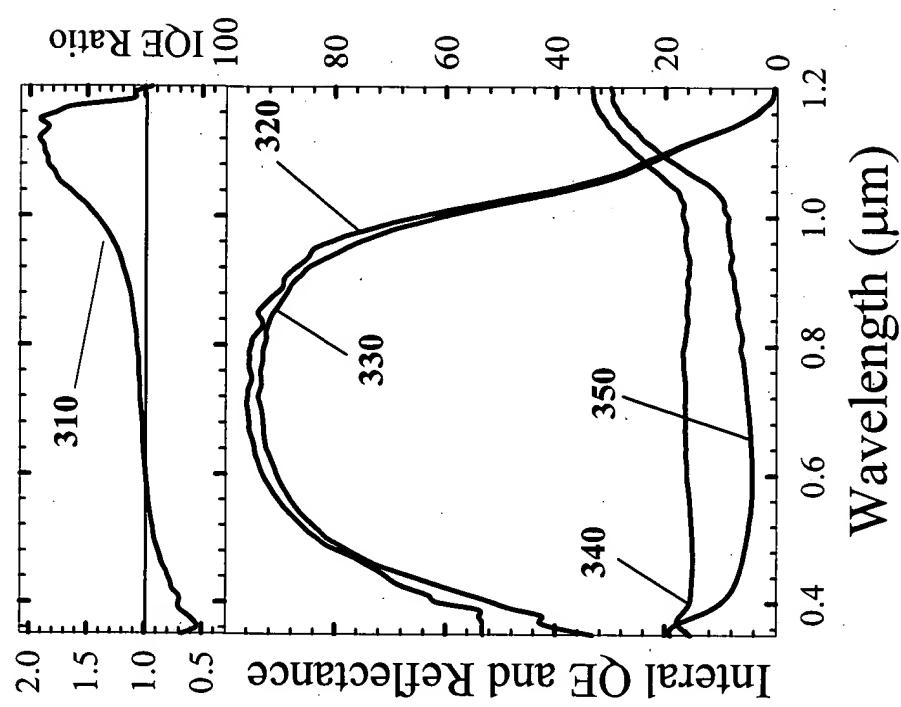
Figure 19
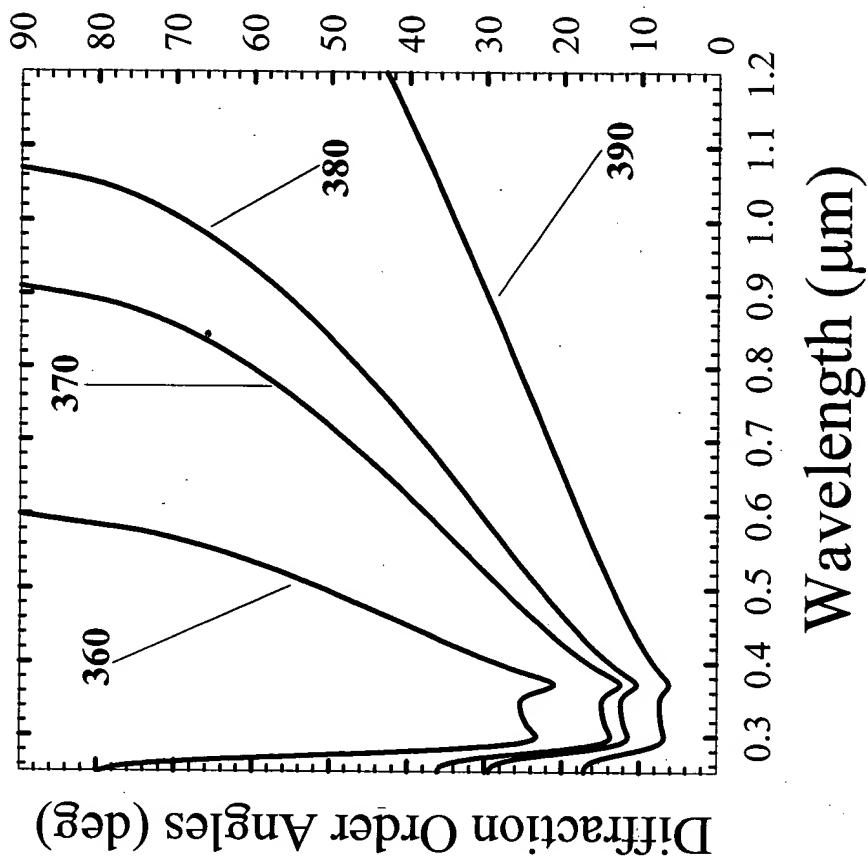
Figure 20(b)

Figure 20(a)

Figure 21